BILL NO. S-85-12-34

SPECIAL ORDINANCE NO. S-02-86

AN ORDINANCE approving Civil City Purchase Order #A-45886 with HVAC Systems Company, for the Street Department Storage Area of the City of Fort Wayne, Indiana.

NOW, THEREFORE, BE IT ORDAINED BY THE COMMON COUNCIL OF THE CITY OF FORT WAYNE, INDIANA:

SECTION 1. That Civil City Purchase Order #A-45886, between the City of Fort Wayne, by and through the Civil City Purchasing Agent and the Department of Purchasing, with the HVAC Systems Company, for the Street Department Storage Area, respectfully for:

the installation of a ventilation system at the Street Department Storage Area located at 1701 So. Lafayette Street per the specifications in Reference #1230;

involving a total cost of Nine Thousand Nine Hundred Seventy-Three and No/100 Dollars ($9,973.00), all as more particularly set forth in said Purchase Order and specifications in Reference #1230, and are by reference incorporated herein, made a part hereof, and are hereby in all things ratified, confirmed and approved.

SECTION 2. That this Ordinance shall be in full force and effect from and after its passage, and any and all necessary approval by the Mayor.

Councilmember

APPROVED AS TO FORM
AND LEGALITY

Bruce O. Boxberger, City Attorney

Read the first time in full and on motion by _____, seconded by _____, and duly adopted, read the second time by title and referred to the Committee _____ (and the City Plan Commission for recommendation) and Public Hearing to be held after due legal notice, at the Council Chambers, City-County Building, Fort Wayne, Indiana, on _____, the _____ day of _____, 19____, at _____ o'clock ____.M.,E.S.T.

DATE: _____

_____
SANDRA E. KENNEDY, CITY CLERK

Read the third time in full and on motion by Ginquinta, seconded by Stier, and duly adopted, placed on its passage. PASSED ~~(LOST)~~ by the following vote:

| | AYES | NAYS | ABSTAINED | ABSENT | TO-WIT: |
|---|---|---|---|---|---|
| TOTAL VOTES | 8 | | | 1 | |
| BRADBURY | ✓ | | | | |
| BURNS | ✓ | | | | |
| EISBART | ✓ | | | | |
| GiaQUINTA | ✓ | | | | |
| HENRY | ✓ | | | | |
| REDD | ✓ | | | | |
| SCHMIDT | | | | ✓ | |
| STIER | ✓ | | | | |
| TALARICO | ✓ | | | | |

DATE: 1-14-86

Sandra E. Kennedy
SANDRA E. KENNEDY, CITY CLERK

Passed and adopted by the Common Council of the City of Fort Wayne, Indiana, as ~~(ANNEXATION)~~ ~~(APPROPRIATION)~~ ~~(GENERAL)~~ ~~(SPECIAL)~~ ~~(ZONING MAP)~~ ORDINANCE ~~(RESOLUTION)~~ NO. G-02-86 on the 14th day of January, 1986,

ATTEST: (SEAL)

Sandra E. Kennedy
SANDRA E. KENNEDY, CITY CLERK

Samuel J. Talarico
PRESIDING OFFICER

Presented by me to the Mayor of the City of Fort Wayne, Indiana, on the 15th day of January, 1986, at the hour of 2:00 o'clock P.M.,E.S.T.

Sandra E. Kennedy
SANDRA E. KENNEDY, CITY CLERK

Approved and signed by me this 17th day of January, 1986, at the hour of 1:00 o'clock P.M.,E.S.T.

WIN MOSES, JR., MAYOR

TAB SHEET
BID REFERENCE #1230
VENTILATION SYSTEM
STREET DEPARTMENT

| COMPANY NAME | TOTAL COST |
|---|---|
| C. MILLER & SONS | $13,185.00 |
| SUMMIT MECHANICAL | $12,092.00 |
| HVAC SYSYEMS | $ 9,973.00 |

FORM DP2B 5-68

# CITY OF FORT WAYNE
## DEPARTMENT OF PURCHASES
FT. WAYNE, IND.

## INVITATION



Ref. No. 1230

Date OCTOBER 17, 1985

Date wanted 11/5/85

Quotations, subject to the conditions on the reverse hereof, are requested on the following list of materials, supplies, equipment or services, for the department as mentioned, with delivery to destination as shown below. Quotations shall include all charges for delivery, packing, etc. Address your reply as indicated below.*

*Mail all replies and correspondence, etc. to Att. of CAROL OFFERLE: 427-1101 DEPARTMENT OF PURCHASES

Address ONE MAIN STREET, ROOM 940, FORT WAYNE, INDIANA 46802

REQUIRED FOR DELIVERY TO:

Department or Division STREET DEPARTMENT

1701 S. LAFAYETTE STREET

Address FORT WAYNE, INDIANA 46803

Fund Appropriation No. _____

RETURN ORIGINAL TO THE CITY — RETAIN DUPLICATE COPY FOR YOUR FILE

Closing Time of Bids NOVEMBER 5, 1985 AT 11:00 A.M.

TAXES: THE CITY IS EXEMPT FROM FEDERAL EXCISE AND INDIANA STATE SALES TAX. THE CITY'S INDIANA SALES TAX EXEMPTION CERTIFICATE NUMBER IS NO. 34508. PRICES SHOULD NOT INCLUDE THESE TAXES. See "Instructions to Bidders" No. 10 on reverse hereof for details.

**TAX EXEMPT** (Unless otherwise indicated)

| Quantity | Unit | Materials, Supplies, Equipment or Services | Unit Price | Total Amount |
|---|---|---|---|---|
| | | INSTALLATION OF EXHAUST FANS AND AIR LOUVERS IN THE VEHICLE STORAGE AREA AT THE CITY OF FORT WAYNE STREET DEPARTMENT | | |
| | | TOTAL COST: $ 13,185.00 | | |
| | | AFFIRMATIVE ACTION: ON FILE X ATTACHED _____ | | |

Bid Bond required NO ☐ YES XX 5% Performance Bond NO XX YES ☐ NOT REQUIRED

See instruction item No. 16 on reverse side hereof.

Terms _____ % cash discount if paid within _____ days from delivery and acceptance of goods or completion of services.

## PROPOSAL OR BID

In compliance with the above invitation for bids and subject to all conditions thereof, the undersigned offers and agrees, if this bid be accepted within a reasonable time from date of closing, to furnish any or all of the items or render such services upon which prices are quoted, in accordance with the specifications applying and at the price set opposite each item.

Delivery of any or all of the items or completion of services indicated shall be made within ___ days from receipt of order

IMPORTANT ☞ As delivery may be a deciding factor in the award of an order, it is important that bidders furnish the information requested above.

Sign Here:

C. MILLER & SONS, INC.
Name of Company

Per R. James Miller Title Sec. Treas.

Address 4136 W. Washington Ctr. Rd.

City Fort Wayne, Indiana Date 11/5/85

FORM DP2B 5-68

# CITY OF FORT WAYNE
## DEPARTMENT OF PURCHASES
FT. WAYNE, IND.

## INVITATION

Quotations, subject to the conditions on the reverse hereof, are requested on the following list of materials, supplies, equipment or services, for the department as mentioned, with delivery to destination as shown below. Quotations shall include all charges for delivery, packing, etc. Address your reply as indicated below.*



Ref. No. 1230

Date OCTOBER 17, 1985

Date wanted 11/5/85

*Mail all replies and correspondence, etc. to Att. of CAROL OFFERLE: 427-1101 DEPARTMENT OF PURCHASES

Address ONE MAIN STREET, ROOM 940, FORT WAYNE, INDIANA 46802

REQUIRED FOR DELIVERY TO:

Department or Division STREET DEPARTMENT

1701 S. LAFAYETTE STREET

Address FORT WAYNE, INDIANA 46803

Fund Appropriation No. _____

RETURN ORIGINAL TO THE CITY — RETAIN DUPLICATE COPY FOR YOUR FILE

Closing Time of Bids NOVEMBER 5, 1985 AT 11:00 A.M.

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**TAX EXEMPT** (Unless otherwise indicated)

| Quantity | Unit | Materials, Supplies, Equipment or Services | Unit Price | Total Amount |
|---|---|---|---|---|
| | | INSTALLATION OF EXHAUST FANS AND AIR LOUVERS IN THE VEHICLE STORAGE AREA AT THE CITY OF FORT WAYNE STREET DEPARTMENT | | |
| | | TOTAL COST: $ 12,092.00 | | |
| | | AFFIRMATIVE ACTION: ON FILE X ATTACHED _____ | | |

Bid Bond required NO ☐ YES XX 5% Performance Bond NO XX YES ☐ NOT REQUIRED

See instruction item No. 16 on reverse side hereof.

Terms _____% cash discount if paid within _____ days from delivery and acceptance of goods or completion of services.

## PROPOSAL OR BID

In compliance with the above invitation for bids and subject to all conditions thereof, the undersigned offers and agrees, if this bid be accepted within a reasonable time from date of closing, to furnish any or all of the items or render such services upon which prices are quoted, in accordance with the specifications applying and at the price set opposite each item.

Delivery of any or all of the items or completion of services indicated shall be made within ____ days from receipt of order*

IMPORTANT ☞ As delivery may be a deciding factor in the award of an order, it is important that bidders furnish the information requested above.

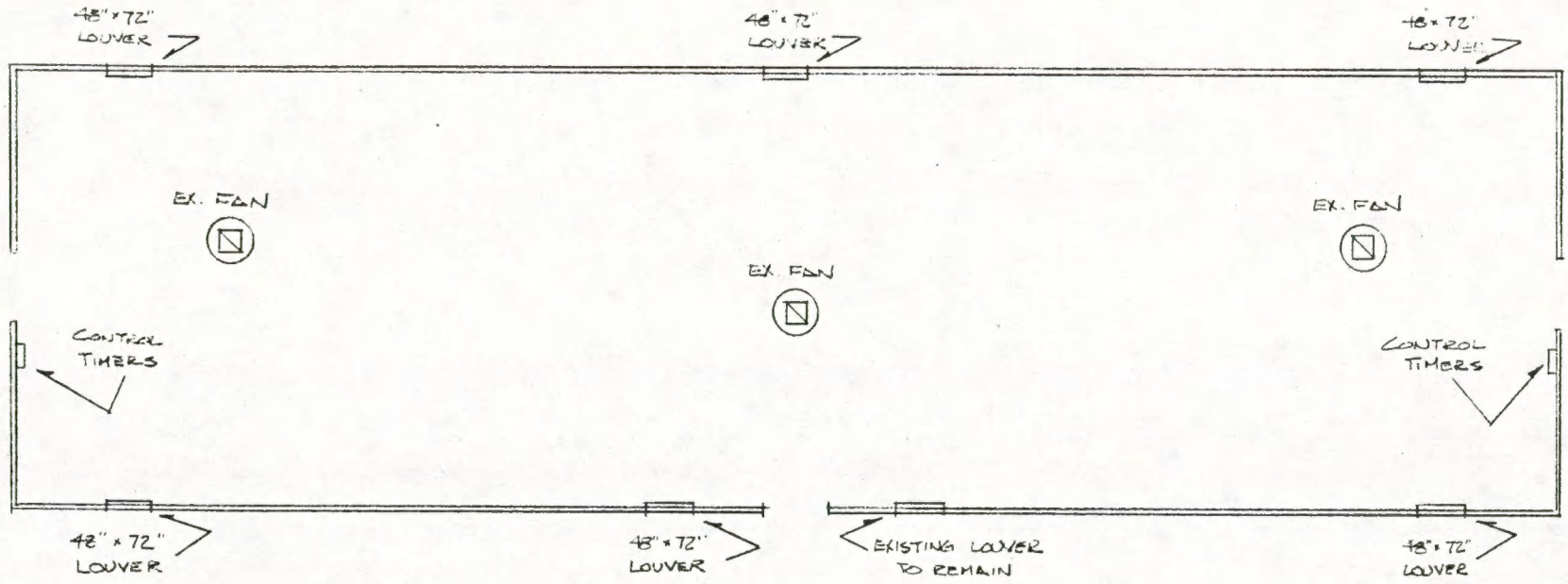
Sign Here: [signature]

Summit Mechanical Services, Inc.
Name of Company

Per Rex Smith Title Vice Presider

Address 2122 Fairfield Avenue

City Fort Wayne Date 11-5-8




SCALE: 1" = 30'

## EQUIPMENT SCHEDULE

| | |
|---|---|
| EXHAUST FAN | HARTZELL SERIES 61-36" MODEL NJ3 ROOF VENTILATOR 2H.P 208/230V 3ϕ 15,910CFM @ 1/8" S.P |
| LOUVER | VENT PRODUCTS MODEL 4400 STATIONARY BLADE LOUVER W/FLANGE GALVANIZED CONSTRUCTION - MILL FINISH |

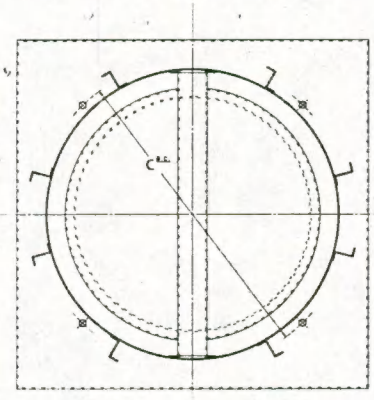
## GENERAL NOTES

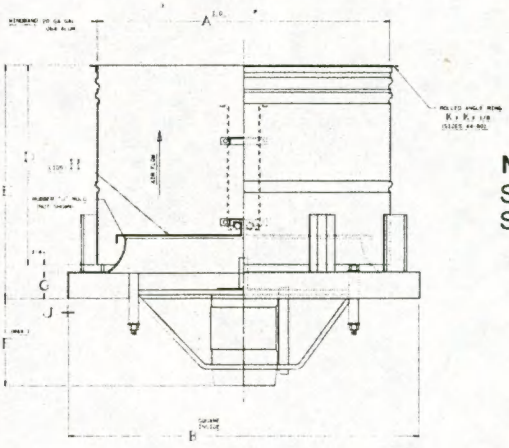
ALL EX FANS TO BE MOUNTED APPROX. 4' FROM ROOF PEAK

ALL INTAKE LOUVERS TO BE MOUNTED ON SIDEWALLS AS LOW AS POSSIBLE

GARAGE VENTILATION
VEHICAL STORAGE AREA
FT WAYNE STREET DEPARTMENT
1701 SOUTH LAFAYETTE
FT. WAYNE, IN.

# Dimensions and Performance





**NOTE:**
Series 61 - Direct Drive - Sizes 12 thru 60.
Series 63 - Belt Drive - Sizes 24 thru 60.

## Principal Dimensions (inches)

| FAN SIZE | A | B | C | D | E | F - (MAX.) D.D. | F - (MAX.) B.D. | G | H GAL. | H ALUM. | J GAL. | J ALUM. | K | MAX. MOTOR FRAME SIZE D.D. | MAX. MOTOR FRAME SIZE B.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 | 18 | 22 | 17¾ | 12 | 14¾ | 12 | — | 2 | 26 | .064 | 16 | .125 | — | 56 | — |
| 14 | 20 | 24 | 21½ | 12 | 14¾ | 12 | — | 2 | 26 | .064 | 16 | .125 | — | 56 | — |
| 16 | 22 | 26 | 21½ | 12 | 14¾ | 12 | — | 2 | 26 | .064 | 16 | .125 | — | 56 | — |
| 18 | 24 | 28 | 26 | 16 | 18¾ | 12 | — | 2 | 26 | .064 | 16 | .125 | — | 56 | — |
| 20 | 26 | 30 | 26 | 16 | 18¾ | 12 | — | 2 | 26 | .064 | 16 | .125 | — | 56 | — |
| 24 | 30 | 36 | 32 | 20 | 23½ | 11½ | 14½ | 2¾ | 26 | .064 | 16 | .125 | — | 184T | 145T |
| 28 | 34 | 42 | 38 | 20 | 23½ | 11 | 15 | 2¾ | 26 | .064 | 14 | .125 | — | 184T | 145T |
| 32 | 38 | 42 | 42 | 24 | 27½ | 11 | 18¼ | 2¾ | 26 | .064 | 14 | .124 | — | 184T | 184T |
| 36 | 44 | 48 | 50 | 24 | 27½ | 14½ | 18¾ | 2¾ | 26 | .064 | 14 | .125 | — | 215T | 184T |
| 40 | 48 | 50 | 54 | 26 | 29½ | 19⅝ | 18⅜ | 2¾ | 26 | .064 | 14 | .125 | — | 256T | 184T |
| 44 | 52 | 54 | 58 | 32 | 35½ | 19⅝ | 24¼ | 2¾ | 26 | .064 | 14 | .125 | ¾ | 256T | 215T |
| 48 | 56 | 58¼ | 66 | 32 | 36½ | 18⅝ | 23¼ | 3¾ | 20 | .064 | 14 | .125 | ¾ | 256T | 215T |
| 54 | 62 | 64¼ | 71 | 38 | 42½ | 21⅛ | 24½ | 3¾ | 20 | .064 | 14 | .125 | ¾ | 286T | 256T |
| 60 | 68 | 70¼ | 79 | 38 | 42½ | 21⅛ | 28¼ | 3¾ | 20 | .064 | 14 | .125 | ¾ | 286T | 256T |

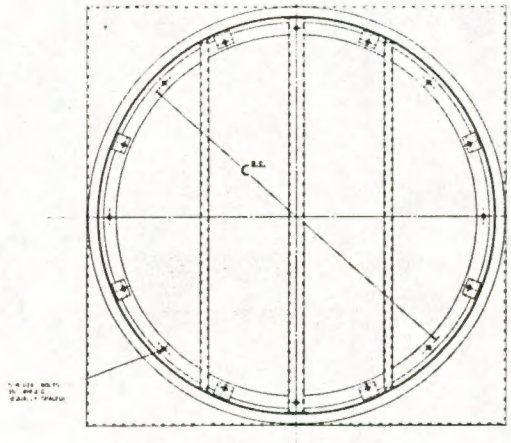
**Specifications and dimensions are subject to change.**
**Certified prints are available.**

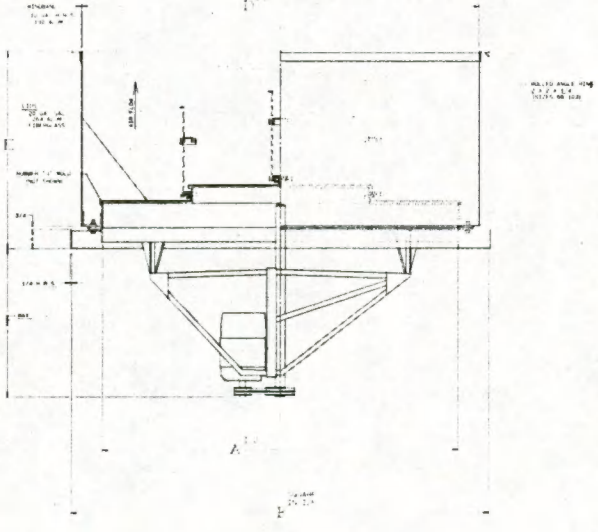
## Principal Dimensions (inches)

| FAN SIZE | A | B | C | D | E | F D.D. | F B.D. | MAX. MOTOR FRAME D.D. | MAX. MOTOR FRAME B.D. |
|---|---|---|---|---|---|---|---|---|---|
| 66 | 67 | 79¾ | 71½ | 76½ | 40¾ | 28 | 44 | 326T | 256T |
| 72 | 73 | 85¾ | 76¾ | 82½ | 40¾ | 29½ | 44 | 365T | 286T |
| 84 | 85¼ | 98¼ | 89 | 95 | 46¾ | — | 49 | — | 324T |
| 96 | 97⅜ | 110⅜ | 101¼ | 107 | 46¾ | — | 49 | — | 326T |
| 103 | 104½ | 117½ | 108⅜ | 114 | 46¾ | — | 49 | — | 326T |

**Specifications and dimensions are subject to change.**
**Certified prints are available.**

**NOTE:** Series 61 - Direct Drive - Sizes 66 & 72 only.
Series 63 - Belt Drive - Sizes 66, 72, 84, 96, 103.





# Series 61 – Direct Drive

## Rating Table

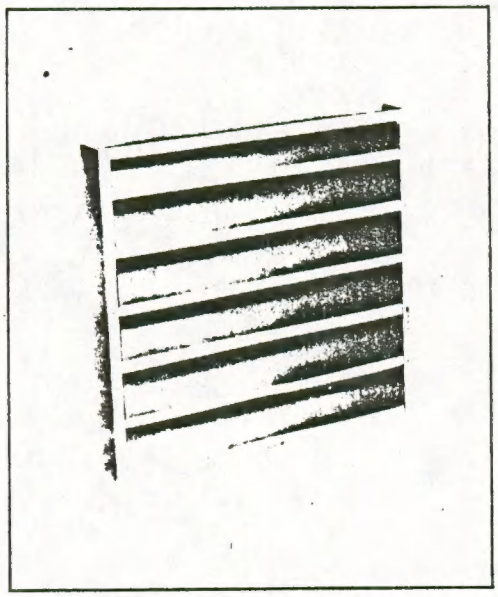
| Size | Type | No. of Blades | Blade Angle | HP | Max. BHP | RPM | CFM @ SP 0" | 1/8" | 1/4" | 3/8" | 1/2" | Net Inst. Weight # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12" | PD2 | 6 | | 1/4 | .22 | 3450 | 1832 | 1725 | 1615 | 1400 | 1155 | 55 |
| | OD3 | 4 | | 1/4 | .10 | 1725 | 1390 | 1177 | | | | 60 |
| 14" | PD3 | 6 | | 1/4 | .08 | 1725 | 1705 | 1440 | | | | 60 |
| | OD3 | 4 | | 1/4 | .17 | 1725 | 2110 | 1820 | | | | 66 |
| 16" | PD3 | 6 | | 1/4 | .17 | 1725 | 2520 | 2250 | | | | 60 |
| | WD3 | 4 | | 1/4 | .27 | 1725 | 3040 | 2780 | 2500 | | | 67 |
| 18" | QD3 | 8 | | 1/4 | .26 | 1725 | 3240 | 2945 | 2490 | | | 87 |
| | WE3 | 4 | | 1/3 | .37 | 1725 | 3850 | 3520 | 3225 | | | 91 |
| | WF3 | 4 | | 1/2 | .55 | 1725 | 4500 | 4190 | 3860 | | | 95 |
| | WD4 | 4 | | 1/4 | .16 | 1140 | 2940 | 2490 | | | | 82 |
| 20" | LF3 | 3 | | 1/2 | .47 | 1725 | 4665 | 4290 | 3975 | 3490 | | 103 |
| | WG3 | 4 | | 3/4 | .74 | 1725 | 5900 | 5540 | 5200 | 4800 | | 119 |
| 24" | ND3 | 2 | | 1/4 | .28 | 1725 | 5120 | | | | | 123 |
| | NF3 | 2 | | 1/2 | .56 | 1725 | 6630 | 5830 | 4980 | | | 131 |
| | NG3 | 2 | | 3/4 | .80 | 1725 | 7400 | 6740 | 6000 | 5000 | | 139 |
| | PH3 | 6 | | 1 | 1.12 | 1750 | 8100 | 7680 | 7230 | 6770 | 6310 | 155 |
| | PI3 | 6 | | 1 1/2 | 1.50 | 1750 | 9060 | 8700 | 8300 | 7850 | 7250 | 163 |
| | WJ3 | 4 | | 2 | 2.06 | 1750 | 10380 | 9960 | 9550 | 9100 | 8630 | 167 |
| | LE4 | 3 | | 1/3 | .30 | 1140 | 5375 | 4750 | | | | 150 |
| | WF4 | 4 | | 1/2 | .57 | 1140 | 6800 | 6140 | 5400 | | | 163 |
| 28" | NF3 | 2 | | 1/2 | .45 | 1725 | 7420 | 6320 | | | | 138 |
| | NG3 | 2 | | 3/4 | .72 | 1725 | 9280 | 8350 | 7300 | 5930 | | 138 |
| | NH3 | 2 | | 1 | 1.00 | 1750 | 9850 | 8990 | 8050 | 7000 | | 150 |
| | PI3 | 6 | | 1 1/2 | 1.52 | 1750 | 10300 | 9830 | 9360 | 8850 | 8300 | 174 |
| | PJ3 | 6 | | 2 | 2.03 | 1750 | 12080 | 11600 | 11100 | 10560 | 10000 | 178 |
| | LG4 | 3 | | 3/4 | .68 | 1140 | 8380 | 7680 | 6900 | 5900 | | 165 |
| | WH4 | 4 | | 1 | 1.11 | 1160 | 10400 | 9670 | 8920 | 8170 | | 158 |
| 32" | NH3 | 2 | | 1 | 1.00 | 1750 | 11820 | 10620 | 9330 | 7650 | | 201 |
| | NJ3 | 2 | | 2 | 2.02 | 1750 | 15320 | 14370 | 13330 | 12250 | 11000 | 213 |
| | NF4 | 2 | | 1/2 | .55 | 1140 | 9930 | 8400 | | | | 189 |
| | LI4 | 3 | | 1 1/2 | 1.53 | 1160 | 12630 | 11750 | 10900 | 9930 | 7900 | 241 |
| | WJ4 | 4 | | 2 | 2.2 | 1160 | 15170 | 14370 | 13550 | 12800 | 11700 | 249 |
| | WH5 | 4 | | 1 | .93 | 870 | 11410 | 10270 | 9100 | | | 229 |
| 36" | NJ3 | 2 | | 2 | 2.01 | 1750 | 17270 | 15910 | 14470 | 12900 | 10970 | 222 |
| | NK3 | 2 | | 3 | 2.82 | 1750 | 20020 | 18850 | 17600 | 16600 | 15250 | 250 |
| | PL3 | 6 | | 5 | 4.82 | 1750 | 22650 | 22000 | 21300 | 20500 | 19550 | 282 |
| | NH4 | 2 | | 1 | 1.12 | 1160 | 14800 | 13500 | 11800 | | | 226 |
| | LJ4 | 3 | | 2 | 2.33 | 1160 | 17700 | 16830 | 15900 | 14930 | 13800 | 248 |
| | PK4 | 6 | | 3 | 2.43 | 1160 | 18600 | 17750 | 16500 | 15200 | 13700 | 382 |
| | WL4 | 4 | | 5 | 3.83 | 1160 | 22000 | 21150 | 20250 | 19400 | 18200 | 322 |
| | LH5 | 3 | | 1 | .98 | 870 | 13400 | 12250 | 10900 | | | 278 |
| | WI5 | 4 | | 1 1/2 | 1.64 | 870 | 16610 | 15370 | 13970 | 11950 | | 290 |
| 40" | NJ4 | 2 | | 2 | 2.25 | 1160 | 20630 | 19000 | 17200 | 15150 | | 312 |
| | PK4 | 6 | | 3 | 2.90 | 1160 | 22200 | 20950 | 19600 | 18150 | 16300 | 356 |
| | PL4 | 6 | | 5 | 4.90 | 1160 | 25900 | 25000 | 24100 | 23050 | 21850 | 381 |
| | NH5 | 2 | | 1 | .94 | 870 | 15550 | 13270 | | | | 292 |
| | PI5 | 6 | | 1 1/2 | 1.25 | 870 | 16650 | 14900 | 12850 | | | 260 |
| | LJ5 | 3 | | 2 | 1.90 | 870 | 19230 | 18000 | 16630 | 15050 | 12000 | 340 |
| | WK5 | 4 | | 3 | 3.47 | 870 | 23380 | 22150 | 20700 | 19000 | | 364 |
| | WI6 | 4 | | 1 1/2 | 1.67 | 690 | 18300 | 16600 | 14650 | | | 378 |
| 44" | NJ4 | 2 | | 2 | 2.17 | 1160 | 23070 | 20800 | 18400 | 15050 | | 341 |
| | NK4 | 2 | | 3 | 3.50 | 1160 | 27050 | 25150 | 23150 | 21200 | 18900 | 377 |
| | PL4 | 6 | | 5 | 5.20 | 1160 | 29600 | 28500 | 27300 | 26000 | 24650 | 389 |
| | NH5 | 2 | | 1 | .98 | 870 | 17730 | 14600 | | | | 345 |
| | NI5 | 2 | | 1 1/2 | 1.53 | 870 | 20410 | 17970 | 15200 | | | 353 |
| | PJ5 | 6 | | 2 | 2.16 | 870 | 21900 | 20300 | 18600 | 16600 | 13200 | 359 |
| | LK5 | 3 | | 3 | 3.20 | 870 | 24850 | 23550 | 22100 | 20600 | 18750 | 385 |
| | WL5 | 4 | | 5 | 5.10 | 870 | 30770 | 29450 | 27800 | 26150 | 24400 | 421 |
| | LI6 | 3 | | 1 1/2 | 1.49 | 690 | 19380 | 17700 | 15650 | | | 365 |
| 48" | NJ4 | 2 | | 2 | 2.15 | 1160 | 25500 | 23200 | 20700 | 17750 | | 419 |
| | NK4 | 2 | | 3 | 3.12 | 1160 | 28950 | 26600 | 24200 | 21400 | 18000 | 431 |
| | NL4 | 2 | | 5 | 5.37 | 1160 | 34350 | 32500 | 30400 | 28100 | 25550 | 447 |
| | AM4 | 4 | 20° | 7 1/2 | 8.47 | 1160 | 41200 | 39650 | 38100 | 36500 | 34700 | 596 |
| | NJ5 | 2 | | 2 | 2.18 | 870 | 25450 | 22900 | 19750 | | | 455 |
| | AK5 | 4 | 19° | 3 | 3.27 | 870 | 30030 | 27950 | 25700 | 22750 | 18600 | 523 |
| | LL5 | 3 | | 5 | 4.42 | 870 | 31250 | 29600 | 27850 | 26100 | 24100 | 543 |
| | AJ6 | 4 | 23° | 2 | 2.20 | 690 | 26500 | 23900 | 20700 | | | 539 |
| | AK6 | 6 | 24.5° | 3 | 3.30 | 690 | 29830 | 27700 | 25100 | 20600 | | 546 |

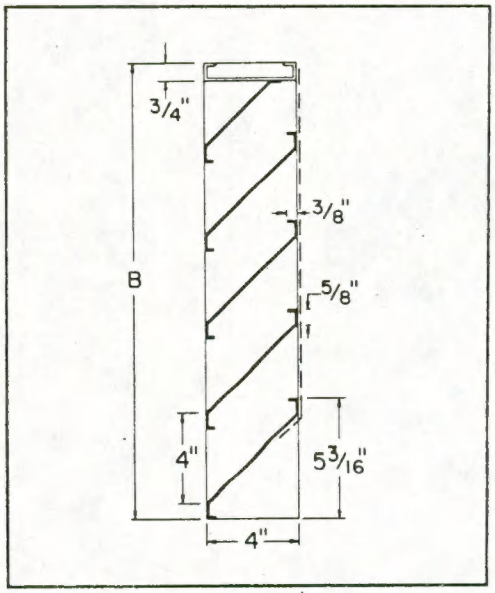
**CFM shown is net flow at the discharge and includes static pressure loss through ventilator.**

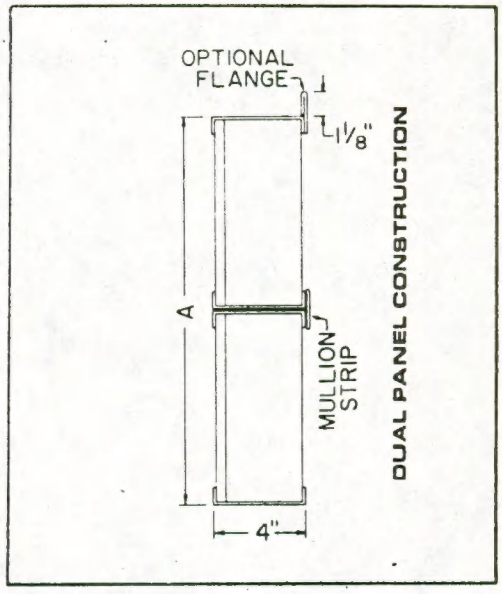
**Note: For aluminum construction – multiply weight by .75.**

1901 South Kilbourn Avenue Chicago, Illinois 60623
Telephone: 312/521 1900
Outside Illinois: 800/368-8368

# CERTIFICATION & SUBMITTAL
# MODEL 4400 FABRICATED METAL LOUVER
### 4" Deep "J" Blade @ 45°






## STANDARD SPECIFICATIONS

- **FRAME:** 18 gauge galvanized steel.
- **BLADES:** 18 gauge galvanized steel, permanently riveted to frame.
- **BIRDSCREEN:** 19 gauge ½" x ½" galvanized steel.
- **FINISH:** Standard Mill.
- **MAXIMUM SINGLE SECTION:** 72" x 96".
- **MINIMUM SIZE:** 6" x 10".

**NOTE:** A and B are opening dimensions. Unless otherwise specified, louvers are made ¼" undersize.

## OPTIONS

| | |
|---|---|
| —31 | Range. |
| —34 | Buck Frame (Requires Flanged Louver). |
| —35 | Sill Extension. |
| —36 | All Welded Construction. |
| —40 | Standard Screen in Removable Frame. |
| —42 | 18 x 16 Mesh Aluminum Insect Screen. |
| —81 | 16 Gauge Construction. |
| —86 | Aluminum Construction. |
| —95 | Finishing. |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# PERFORMANCE DATA MODEL 4400
## FABRICATED METAL LOUVER
### 4"Deep "J" Blade @ 45°

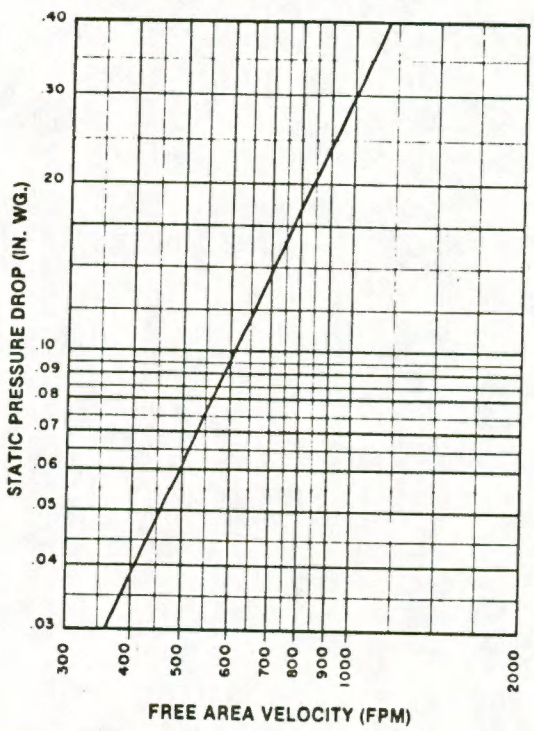
Vent Products certifies that the model 4400 Louvers shown hereon are licensed to bear the AMCA Seal. The ratings shown are based on tests made in accordance with AMCA Standard 500 and comply with the requirements of the AMCA Certified Ratings Program for air performance ratings.

## FREE AREA CHART

| B HEIGHT (In Inches) \ A WIDTH (In Inches) | 12 | 16 | 20 | 24 | 28 | 32 | 36 | 40 | 44 | 48 | 52 | 56 | 60 | 64 | 68 | 72 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 | .28 | .39 | .50 | .60 | .71 | .82 | .93 | 1.04 | 1.15 | 1.26 | 1.37 | 1.47 | 1.58 | 1.69 | 1.80 | 1.91 |
| 16 | .43 | .59 | .76 | .93 | 1.10 | 1.26 | 1.43 | 1.60 | 1.76 | 1.93 | 2.10 | 2.27 | 2.43 | 2.60 | 2.77 | 2.93 |
| 20 | .58 | .80 | 1.03 | 1.25 | 1.48 | 1.70 | 1.93 | 2.15 | 2.38 | 2.61 | 2.83 | 3.06 | 3.28 | 3.51 | 3.73 | 3.96 |
| 24 | .73 | 1.01 | 1.29 | 1.58 | 1.86 | 2.15 | 2.43 | 2.71 | 3.00 | 3.28 | 3.56 | 3.85 | 4.13 | 4.41 | 4.70 | 4.98 |
| 28 | .88 | 1.22 | 1.56 | 1.90 | 2.24 | 2.59 | 2.93 | 3.27 | 3.61 | 3.95 | 4.30 | 4.64 | 4.98 | 5.32 | 5.66 | 6.01 |
| 32 | 1.03 | 1.43 | 1.83 | 2.23 | 2.63 | 3.03 | 3.43 | 3.83 | 4.23 | 4.63 | 5.03 | 5.43 | 5.83 | 6.23 | 6.63 | 7.03 |
| 36 | 1.18 | 1.63 | 2.09 | 2.55 | 3.01 | 3.47 | 3.93 | 4.39 | 4.84 | 5.30 | 5.76 | 6.22 | 6.68 | 7.14 | 7.60 | 8.06 |
| 40 | 1.32 | 1.84 | 2.36 | 2.88 | 3.39 | 3.91 | 4.43 | 4.94 | 5.46 | 5.98 | 6.49 | 7.01 | 7.53 | 8.05 | 8.56 | 9.08 |
| 44 | 1.47 | 2.05 | 2.63 | 3.20 | 3.78 | 4.35 | 4.93 | 5.50 | 6.08 | 6.65 | 7.23 | 7.80 | 8.38 | 8.95 | 9.53 | 10.10 |
| 48 | 1.62 | 2.26 | 2.89 | 3.52 | 4.16 | 4.79 | 5.43 | 6.06 | 6.69 | 7.33 | 7.96 | 8.59 | 9.23 | 9.86 | 10.50 | 11.13 |
| 52 | 1.77 | 2.47 | 3.16 | 3.85 | 4.54 | 5.23 | 5.93 | 6.62 | 7.31 | 8.00 | 8.69 | 9.39 | 10.08 | 10.77 | 11.46 | 12.15 |
| 56 | 1.92 | 2.67 | 3.42 | 4.17 | 4.92 | 5.67 | 6.42 | 7.18 | 7.93 | 8.68 | 9.43 | 10.18 | 10.93 | 11.68 | 12.43 | 13.18 |
| 60 | 2.07 | 2.88 | 3.69 | 4.50 | 5.31 | 6.12 | 6.92 | 7.73 | 8.54 | 9.35 | 10.16 | 10.97 | 11.78 | 12.59 | 13.39 | 14.20 |
| 64 | 2.22 | 3.09 | 3.96 | 4.82 | 5.69 | 6.56 | 7.42 | 8.29 | 9.16 | 10.02 | 10.89 | 11.76 | 12.63 | 13.49 | 14.36 | 15.23 |
| 68 | 2.37 | 3.30 | 4.22 | 5.15 | 6.07 | 7.00 | 7.92 | 8.85 | 9.77 | 10.70 | 11.62 | 12.55 | 13.48 | 14.40 | 15.33 | 16.25 |
| 72 | 2.52 | 3.50 | 4.49 | 5.47 | 6.46 | 7.44 | 8.42 | 9.41 | 10.39 | 11.37 | 12.36 | 13.34 | 14.32 | 15.31 | 16.29 | 17.28 |
| 76 | 2.67 | 3.71 | 4.75 | 5.80 | 6.84 | 7.88 | 8.92 | 9.96 | 11.01 | 12.05 | 13.09 | 14.13 | 15.17 | 16.22 | 17.26 | 18.30 |
| 80 | 2.82 | 3.92 | 5.02 | 6.12 | 7.22 | 8.32 | 9.42 | 10.52 | 11.62 | 12.72 | 13.82 | 14.92 | 16.02 | 17.12 | 18.22 | 19.32 |
| 84 | 2.97 | 4.13 | 5.29 | 6.45 | 7.60 | 8.76 | 9.92 | 11.08 | 12.24 | 13.40 | 14.56 | 15.71 | 16.87 | 18.03 | 19.19 | 20.35 |
| 88 | 3.12 | 4.34 | 5.55 | 6.77 | 7.99 | 9.20 | 10.42 | 11.64 | 12.85 | 14.07 | 15.29 | 16.51 | 17.72 | 18.94 | 20.16 | 21.37 |
| 92 | 3.27 | 4.54 | 5.82 | 7.09 | 8.37 | 9.64 | 10.92 | 12.20 | 13.47 | 14.75 | 16.02 | 17.30 | 18.57 | 19.85 | 21.12 | 22.40 |
| 96 | 3.42 | 4.75 | 6.08 | 7.42 | 8.75 | 10.09 | 11.42 | 12.75 | 14.09 | 15.42 | 16.75 | 18.09 | 19.42 | 20.76 | 22.09 | 23.42 |

FREE AREA (Sq. Ft.)

## AIR PERFORMANCE




Data shown includes the effect of ½" x ½" x 19 ga. galvanized birdscreen. Graphs are corrected to standard air density .075 lb. per cubic foot.

**RECOMMENDED MAXIMUM INTAKE FREE AREA VELOCITY 750 F.P.M.**

SUMMIT MECHANICAL SERVICES, INC.
2122 Fairfield Ave.
Fort Wayne, Indiana 46804
(219) 456-4548

July 2, 1985

Mr. Rick Gladd
Street Department
1701 South Lafayette Street
Fort Wayne, IN 46803

Re: Ventilation of Garage

Dear Rick,

In response to your request to investigate the problems with fumes and smoke in the truck garage, I summit the following for your consideration:

The installation of three (3) roof mounted exhaust fans (nominal rating of 16,000 CFM each).
The installation of six (6) intake air louvers with birdscreens (sized to approximately 720 FPM).

The fans will be electrically wired in such a way that they can be independently operated from either end of the garage. They will each be equipped with a spring wound timer to select a run cycle from 0 - 60 minutes (this feature eliminates fans acciden-tally being left on).

We originally discussed motorized dampers to be installed in the intake air louvers, but since temperature control and security are not a consideration I have eliminated them from this proposal. I feel that the cost for these motors and dam-pers cannot be justified in this installation.

The total cost for this installation including all labor, materials, permits, and sub-contractors will be twelve thousand, ninety-two dollars. $12,092.00

I have enclosed a sketch of the building noting the approximate location of the equipment and copies of equipment sub-mittals.

If this proposal is accepted, please allow 4 weeks for equipment delivery.

Thank you for the opportunity to work on this project.

Sincerely,

Rex D. Smith
SUMMIT MECHANICAL SERVICES, INC.

RDS/krk

FORM DP2B 5-68

# CITY OF FORT WAYNE
## DEPARTMENT OF PURCHASES
FT. WAYNE, IND.

## INVITATION

Page 1 of 17

Ref. No. 1230

Date OCTOBER 17, 1985

Date wanted 11/5/85

Quotations, subject to the conditions on the reverse hereof, are requested on the following list of materials, supplies, equipment or services, for the department as mentioned, with delivery to destination as shown below. Quotations shall include all charges for delivery, packing, etc. Address your reply as indicated below.*

*Mail all replies and correspondence, etc. to Att. of CAROL OFFERLE: 427-1101 DEPARTMENT OF PURCHASES

Address ONE MAIN STREET, ROOM 940, FORT WAYNE, INDIANA 46802

REQUIRED FOR DELIVERY TO:

Department or Division STREET DEPARTMENT

1701 S. LAFAYETTE STREET

Address FORT WAYNE, INDIANA 46803

Fund Appropriation No. _____

RETURN ORIGINAL TO THE CITY — RETAIN DUPLICATE COPY FOR YOUR FILE

Closing Time of Bids NOVEMBER 5, 1985 AT 11:00 A.M.

TAXES: THE CITY IS EXEMPT FROM FEDERAL EXCISE AND INDIANA STATE SALES TAX. THE CITY'S INDIANA SALES TAX EXEMPTION CERTIFICATE NUMBER IS NO. 34508. PRICES SHOULD NOT INCLUDE THESE TAXES. See "Instructions to Bidders" No. 10 on reverse hereof for details.

**TAX EXEMPT** (Unless otherwise indicated)

| Quantity | Unit | Materials, Supplies, Equipment or Services | Unit Price | Total Amount |
|---|---|---|---|---|
| | | INSTALLATION OF EXHAUST FANS AND AIR LOUVERS IN THE VEHICLE STORAGE AREA AT THE CITY OF FORT WAYNE STREET DEPARTMENT | | |
| | | TOTAL COST: $ 9,973.00 | | |
| | | AFFIRMATIVE ACTION: ON FILE XXX ATTACHED _____ | | |

Bid Bond required NO ☐ YES XX 5% Performance Bond NO XX YES ☐ NOT REQUIRED

See instruction item No. 16 on reverse side hereof.

Terms _____% cash discount if paid within _____days from delivery and acceptance of goods or completion of services.

## PROPOSAL OR BID

In compliance with the above invitation for bids and subject to all conditions thereof, the undersigned offers and agrees, if this bid be accepted within a reasonable time from date of closing, to furnish any or all of the items or render such services upon which prices are quoted, in accordance with the specifications applying and at the price set opposite each item.

Delivery of any or all of the items or completion of services indicated shall be made within ___days from receipt of order*

IMPORTANT ☞ As delivery may be a deciding factor in the award of an order, it is important that bidders furnish the information requested above.

Sign Here:

HVAC Systems Service, Inc.
Name of Company

Per [signature] Title President

Address 3415 Northrop

City Ft Wayne, IN 46805 Date 11/4/85

# HVAC SYSTEMS SERVICE, INC.

(219) 484-5296

3415 Northrop Fort Wayne, Indiana 46805


November 04, 1985

Carol Offerle
One Main Street Room 940
Fort Wayne, IN 46802

## *Quotation*

5390RQ - Street Department

We are pleased to quote you on equipment for the above project as follows:

1. HVAC Systems Service, Inc will supply and install three (3) roof mounted exhaust fans manufactured by Patton, model number RVD305-3.

2. Fans shall be mounted on Patton roof curbs model number SRC30. Curbs to be properly sealed against leakage.

3. Additionally, the fans shall be operated by 0 to 60 minute spring wound timers made by Nu-Tone. One (1) timer each shall be mounted at either end of the storage facility.

4. All necessary electrical wiring shall be connected to these fans from the building's existing electrical service.

5. We will supply and install six (6) sets of fixed louvers (with bird screens). These louvers shall allow a total of 48,000 CFM at 750 FPM to enter building as make-up air for the exhaust. To be mounted within two (2) feet of floor level.

6. All work shall commence within two weeks of issue of purchase order, and be completed within two weeks of start.

7. Exhaust fans shall have a one (1) year warranty against manufacturer's defects.

8. Installation, repairs, and warranty service shall be provided by HVAC employed personnel. See attached list of services.

As per Bid package 1230
Price shall be ..... $ 9,973.00

This quotation subject to change without notice and void after 60 days.
To the prices and terms quoted add any manufacturers' or sales tax payable on the transaction under any effective Federal or State statute.
MATERIAL:—F.O.B. Factory. Freight prepaid and allowed. No material is to be returned without prior written authorization.
TERMS:—Net 30 Days, Upon Receipt of Satisfactory Credit Information.

Accepted _____

Date _____ By Richard M. Quick 11-5-85

HVAC Systems Service, Inc.

3415 Northrop • Fort Wayne, Indiana 46805 • 219-484-5296

## GENERAL SERVICES

1. Full line of service agreements. (Custom designed for individual application.)

2. Repair of commercial, industrial, institutional heating, ventilating, and air conditioning equipment, including but not limited to: American Air, Bohn, Brash, Bryant, Carrier, ESI, Fetters, Indecco, Lennox, Reznor, Tempmaster, Trane, TSI, Webster, and York.

3. Repair and recalibration of all pneumatic, electric, electronic, and environmental control systems.

4. Complete factory trained service on all Nesbitt heating and air conditioning units, VAV systems, Air Handlers, and Unit Ventilators.

5. Design or modification of controls and equipment for energy efficiency and conservation.

6. Air distribution system (limited test, balance, and check).

7. Computer room environmental system:
   a) Factory trained Leibert service
   b) Factory trained Edpac service
   c) Consulting service available on computer room environmental systems (design, application, and problem areas).

## CONSULTING SERVICES

1. Energy control and energy management consultants.

2. Diagnostic troubleshooting and servicing.

3. Preventative maintenance consultants.

4. Consultants on refurbishing existing heating, ventilating, and air conditioning equipment in the following areas:
   a) To design specifications
   b) Improve system reliability
   c) Decrease down time
   d) Resolve reoccuring problems
   e) Maximize system efficiency
   f) Reduce energy cost

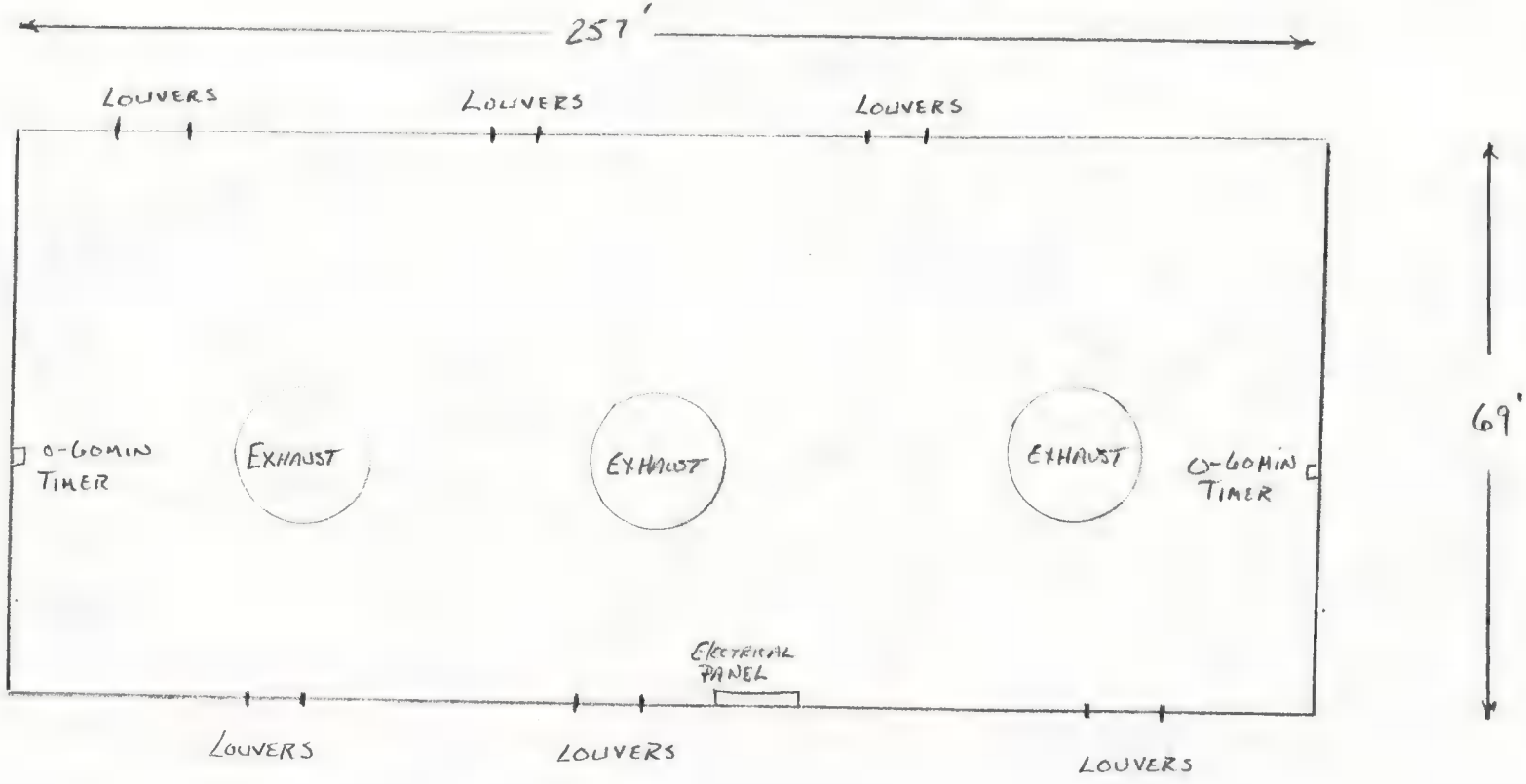
## PARTS

1. Complete line of Nesbitt parts available.

2. Complete line of air filters, filter frames, and roll media.

3. On call 24 hours (same day response).

# FORT WAYNE STREET DEPT. VEHICLE STORAGE AREA

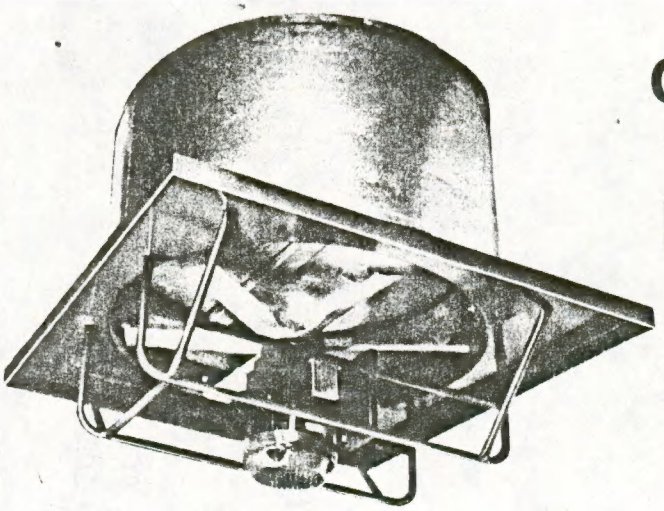



EXHAUST FANS TO BE MOUNTED ON SOUTH SIDE OF

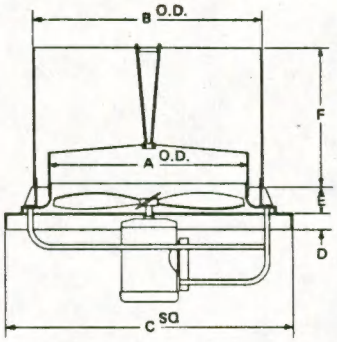
HVAC Systems Service, Inc.
3415 Northrop • Fort Wayne, Indiana 46805 • 219-484-5296

MODEL RVD

# Commercial and Industrial PATTON *Direct Drive* ROOF VENTILATORS



- Cast aluminum blades.
- Direct drive, heavy duty industrial construction.
- Totally enclosed motors standard. Open Drip Proof and Explosion Proof optional.
- Rolled inlet venturi for efficient air flow.
- Utilizes heavy duty construction.
- Butterfly damper axle pivots on self lubricating nylon bearings.
- Wind band is 18 gauge galvanized with 2" double rolled edge top and bottom for added strength.
- Rubber shim under dampers for better seal.
- Rubber damper stops for quiet operation.
- Acid resistant coatings available. Consult factory for pricing.
- Back draft dampers can be provided in curb base only.
- Size of roof opening to be 6" larger than fan size.




For roof curb data see page 22.

**DIMENSIONS**

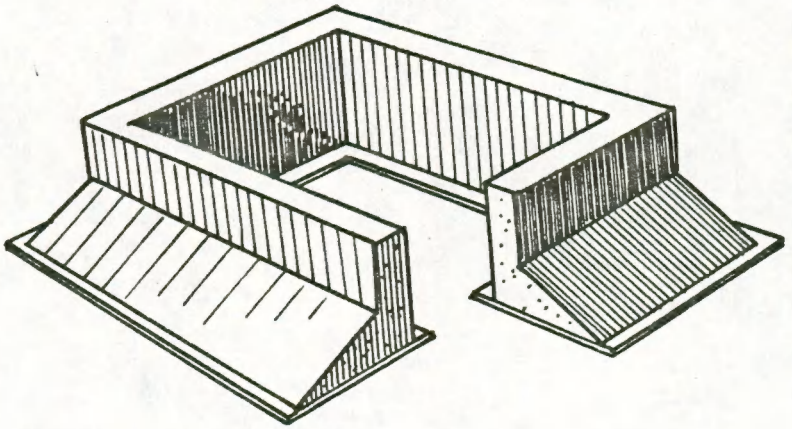
| Fan Size | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| 18" | 19 | 24 | 33 | 2½ | 3 | 16 |
| 24" | 25 | 30 | 39 | 2½ | 3 | 19 |
| 30" | 31 | 36 | 45 | 2½ | 3 | 22 |
| 36" | 37 | 42 | 51 | 2½ | 3 | 25 |
| 42" | 43 | 48 | 57 | 2½ | 3 | 27 |

**ALUMINUM BLADES**

| 1 PHASE 115/230V Catalog No. | 3 PHASE 230/460V Catalog No. | Fan Size | Motor HP | Fan RPM | CFM vs. Static Pressure 0" | ⅛" | ¼" | ½" | Approx. Ship Wt. |
|---|---|---|---|---|---|---|---|---|---|
| RVD18¼ | RVD18¼-3 | 18" | ¼ | 1,200 | 2,870 | — | — | — | 170 |
| RVD18⅓ | RVD18⅓-3 | 18" | ⅓ | 1,800 | 3,200 | 2,850 | 2,600 | — | 174 |
| RVD18½ | RVD18½-3 | 18" | ½ | 1,800 | 4,100 | | | | 177 |
| RVD181 | RVD181-3 | 18" | 1 | 1,800 | 4,370 | 4,160 | 3,880 | — | 180 |
| RVD24¼ | RVD24¼-3 | 24" | ¼ | 1,200 | 4,560 | — | — | — | 270 |
| RVD24¾ | RVD24¾-3 | 24" | ¾ | 1,200 | 6,390 | 5,320 | — | — | 280 |
| RVD241 | RVD241-3 | 24" | 1 | 1,800 | 7,075 | 6,550 | 6,160 | 4,960 | 300 |
| | RVD243-3 | 24" | 3 | 1,800 | 9,970 | 9,590 | 9,210 | 8,220 | 330 |
| | RVD30¾-3 | 30" | ¾ | 1,200 | 8,532 | 7,530 | — | — | 355 |
| | RVD301-3 | 30" | 1 | 900 | 8,550 | — | — | — | 360 |
| | RVD301½-3 | 30" | 1½ | 1,200 | 11,000 | — | — | — | 370 |
| | RVD302-3 | 30" | 2 | 1,200 | 11,400 | 10,160 | 8,930 | — | 380 |
| | RVD303-3 | 30" | 3 | 1,800 | 12,350 | 11,780 | 11,110 | 9,500 | 381 |
| | RVD307½-3 | 30" | 7½ | 1,750 | 17,670 | 17,000 | 16,340 | 15,010 | 420 |
| | RVD305-3 | 30" | 5 | 1,800 | 16,860 | — | — | — | 400 |
| | RVD362-3 | 36" | 2 | 900 | 14,150 | 11,780 | 10,920 | — | 530 |
| | RVD362-3A | 36" | 2 | 1,200 | 13,110 | — | — | — | 530 |
| | RVD363-3 | 36" | 3 | 1,200 | 18,240 | 17,000 | 16,340 | 10,540 | 540 |
| | RVD365-3 | 36" | 5 | 1,200 | 19,000 | — | — | — | 550 |
| | RVD367½-3 | 36" | 7½ | 1,200 | 21,900 | 20,230 | 19,570 | 19,050 | 575 |
| | RVD422-3 | 42" | 2 | 1,200 | 17,000 | 15,050 | — | — | 635 |
| | RVD425-3 | 42" | 5 | 900 | 22,000 | 24,220 | 22,800 | 20,900 | 670 |
| | RVD425-3A | 42" | 5 | 1,200 | 25,650 | — | — | — | 670 |
| | RVD427½-3 | 42" | 7½ | 900 | 28,970 | 27,930 | 26,885 | 23,750 | 705 |
| | RVD427½-3A | 42" | 7½ | 1,200 | 28,970 | 28,020 | 26,600 | 24,600 | 715 |
| | RVD483-3 | 48" | 3 | 1,200 | 24,700 | 22,990 | 20,420 | — | 800 |
| | RVD485-3 | 48" | 5 | 900 | 25,000 | 22,420 | 20,420 | — | 800 |
| | RVD485-3A | 48" | 5 | 850 | 25,080 | 23,080 | 19,570 | — | 800 |
| | RVD487½-3 | 48" | 7½ | 900 | 33,440 | — | — | — | 810 |
| | RVD487½-3A | 48" | 7½ | 1,200 | 36,220 | — | — | — | 815 |
| | RVD4810-3 | 48" | 10 | 900 | 38,950 | 33,250 | 31,160 | 26,500 | 825 |
| | RVD4810-3A | 48" | 10 | 1,200 | 35,150 | 37,050 | 36,290 | 33,720 | 860 |

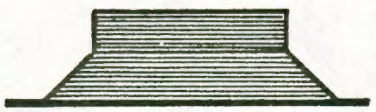
PATTON

# Insulated ROOF CURBS
## for models RVB and RVD Power Roof Ventilators BELT and DIRECT DRIVE



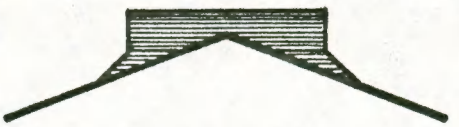
- Used with RVB and RVD roof ventilators. Pages 20 and 21.
- For all types of roof construction.
- For flat, single slope or ridge style roofs.
- Galvanized steel construction.
- 1½" Insulation thickness, 3 pound density.
- Low silhouette 8" height overall.
- Back draft damper available. Call Patton plant for prices and delivery.

Available in flat, sloped or ridge style installation.



FLAT STYLE

SLOPE STYLE



RIDGE STYLE

**NOTE:**
ROOF STYLE and ROOF PITCH MUST BE SPECIFIED ON ORDER.

| Fan Size | Flat | Sloped | Ridge | Base Dimension | Overall Dimension |
|---|---|---|---|---|---|
| 18" | FRC 18 | SRC 18 | RRC 18 | 32" x 32" | 44" x 44" |
| 24" | FRC 24 | SRC 24 | RRC 24 | 38" x 38" | 50" x 50" |
| 30" | FRC 30 | SRC 30 | RRC 30 | 44" x 44" | 56" x 56" |
| 36" | FRC 36 | SRC 36 | RRC 36 | 50" x 50" | 62" x 62" |
| 42" | FRC 42 | SRC 42 | RRC 42 | 56" x 56" | 68" x 68" |
| 48" | FRC 48 | SRC 48 | RRC 48 | 62" x 62" | 74" x 74" |
| 54" | FRC 54 | SRC 54 | RRC 54 | 68" x 68" | 80" x 80" |
| 60" | FRC 60 | SRC 60 | RRC 60 | 74" x 74" | 86" x 86" |

1200

# DIGEST SHEET

S-85-12-34

**TITLE OF ORDINANCE:** SPECIAL

**DEPARTMENT REQUESTING ORDINANCE:** PURCHASING

**SYNOPSIS OF ORDINANCE:**

AN ORDINANCE APPROVING CIVIL CITY PURCHASE ORDER #A-45886 FOR THE INSTALLATION OF A VENTILATION SYSTEM AT THE STREET DEPARTMENT STORAGE AREA LOCATED AT 1701 SO. LAFAYETTE STREET PER THE SPECIFICATIONS IN REFERENCE #1230.

**EFFECT OF PASSAGE:**

VENTILATION SYSTEM WILL PROVIDE A SAFE PLACE FOR STREET DEPARTMENT PERSONNEL IN WHICH TO WORK.

**EFFECT OF NON-PASSAGE:**

EXHAUST FUMES FROM VEHICLES DO NOT DISSIPATE AND CREATE AN UNACCEPTABLE LEVEL OF CARBON MONOXIDE. THIS WILL CONTINUE TO BE A SAFETY HAZARD TO EMPLOYEES CAUSING IRRITATION TO THE EYES, NOSE, THROAT, AND LUNGS.

**MONEY INVOLVED (Direct costs, Expenditures, Savings):**

HVAC SYSTEMS, COMPANY $9,973.00

**ASSIGNED TO COMMITTE (President):**

BILL NO. S-85-12-34

REPORT OF THE COMMITTEE ON FINANCE

WE, YOUR COMMITTEE ON FINANCE TO WHOM WAS REFERRED AN (ORDINANCE) ~~(RESOLUTION)~~ AN ORDINANCE approving Civil City Purchase Order #A-45886 with HVAC systems Company, for the Street Department Storage Area of the City of Fort Wayne, Indiana.

HAVE HAD SAID (ORDINANCE) (RESOLUTION) UNDER CONSIDERATION AND BEG LEAVE TO REPORT BACK TO THE COMMON COUNCIL THAT SAID (ORDINANCE) (RESOLUTION)

| YES | NO |
|---|---|
| MARK E. GiaQUINTA<br>CHAIRMAN | |
| CHARLES B. REDD<br>VICE CHAIRMAN | |
| PAUL M. BURNS | |
| JANET G. BRADBURY | |
| JAMES S. STIER | |

CONCURRED IN 1-14-86

SANDRA E. KENNEDY
CITY CLERK